IN THE CLAIMS:

Please re-write the claims as follows:

- 1 1. (Original) A method for initiating a peer-to-peer communication session, the method
- 2 comprising the steps of:
- attempting a first remote direct memory access (RDMA) read operation directed
- 4 to a cluster partner;
- 5 performing, in response to a successful first RDMA read operation, a first RDMA
- 6 write operation to the cluster partner;
- performing, in response to a successful RDMA write operation, a second RDMA
- 8 read operation directed to the cluster partner; and
- 9 performing, in response to a successful second RDMA read operation, a second
- 10 RDMA write operation to the cluster partner.
- 2. (Original) The method of claim 1 wherein the step of attempting a first RDMA read
- operation further comprises the step of issuing a RDMA read operation to the cluster
- partner requesting a pre-set memory address location that is associated with a status vari-
- able on the cluster partner.

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- 3. (Original) The method of claim 1 further comprising the steps of:
- exchanging a set of peer connection information;
- passing a set of client information to the cluster partner;
- 4 creating a set of appropriate communication ports;
- alerting the cluster partner of a ready status; and
- alerting a set of clients that the cluster partner is in a ready state.

- 4. (Original) The method of claim 3 wherein the set of peer connection information
- 2 comprises a version number.
- 5. (Original) The method of claim 1 wherein the step of passing a set of client informa-
- tion to the cluster partner further comprises the steps of:
- collecting, from a set of clients, the set of client information; and
- transferring the collected set of client information to the cluster partner.
- 6. (Original) The method of claim 5 wherein the client information comprises a number
- of communication ports required.
- 7. (Original) The method of claim 5 wherein the set of client information further com-
- 2 prises an amount of memory requested by a particular client.
- 8. (Original) The method of claim 1 wherein the cluster partner is a storage system.
- 9. (Original) The method of claim 1 wherein the cluster partner is an application server.
- 10. (Original) A storage operating system, executing on a storage system, the storage
- 2 operating system comprising:
- a cluster connection manager adapted to initiate a peer to peer communication
- session with a cluster partner upon initialization of the storage operating system.
- 1 11. (Original) The storage operating system of claim 10 wherein the cluster connection
- 2 manager further comprises:
- means for performing a remote first direct memory access (RDMA) read opera-
- 4 tion directed to a cluster partner;
- means for performing, in response to a successful first RDMA read operation, a
- 6 first RDMA write operation to the cluster partner;

- means for performing, in response to a successful first RDMA write operation, a
- second RDMA read operation directed to the cluster partner; and
- means for performing, in response to a successful second RDMA read operation,
- a second RDMA write operation to the cluster partner.
- 12. (Original) The storage operating system of claim 11 wherein the cluster connection
- 2 manager further comprises:
- means for exchanging a set of peer connection information;
- 4 means for passing a set of client information to the cluster partner;
- means for creating a set of appropriate communication ports;
- 6 means for alerting the cluster partner of a ready status; and
- means for alerting a set of clients that the cluster partner is in a ready state.
- 13. (Original) A method for initiating a peer-to-peer communication session, the method
- 2 comprising the steps of:
- performing a first remote direct memory access read operation directed to a clus-
- 4 ter partner; and
- 5 performing, in response to a successful first remote direct memory access read
- operation, a first remote direct memory access write operation to the cluster partner.
- 14. (Original) The method of claim 13 wherein the first remote direct memory access
- read operation is performed over a Virtual Interface connection having a pre-determined
- and pre-assigned Virtual Interface Number and a pre-determined Fibre Channel ID.
- 1 15. (Currently Amended) A method for initiating a peer-to-peer communication ses-
- sion, the method comprising the steps of:
- (a) <u>initiating a peer-to-peer communication session by</u> attempting a first remote
- 4 direct memory access read operation directed to a predefined hardware address and a pre-

- defined port number, the predefined hardware address and the predefined port number
- 6 previously known to support a RDMA operation; and
- 7 (b) performing, in response to a successful step (a), a first remote direct memory
- access write operation directed to the predefined hardware address and the predefined
- 9 port number.
- 16. (Previously Presented) The method of claim 15 further comprising the step of:
- 2 (c) performing, in response to a successful step (b), a second remote direct mem-
- ory access read operation directed to the predefined hardware address and the predefined
- 4 port number.
- 17. (Original) The method of claim 15 wherein the predefined hardware address com-
- 2 prises a fibre channel identifier.
- 18. (Original) The method of claim 15 wherein the predefined port number comprises a
- virtual interface.
- 19. (Original) The method of claim 15 wherein the first remote direct memory access is
- delivered to a predefined memory address storing booting status information.
- 20. (Original) A system configured to establish reliable peer-to-peer communication
- among storage systems of a clustered environment, the system comprising:
- a peer process executing on each storage system partner; and
- a cluster connection manager executing on each storage system partner, the clus-
- ter connection manager establishing a reliable peer-to-peer connection between each peer
- 6 process by connecting to a predetermined port number using a predetermined network
- 7 address.

- 21. (Original) The system of claim 20 wherein the reliable peer-to-peer connection is
- established without requiring a storage operating system executing on each storage sys-
- tem partner to be fully functioning.
- 22. (Original) The system of claim 20 wherein the peer-to-peer connection is a virtual
- 2 interface connection.
- 23. (Original) The system of claim 20 wherein the peer process is a cluster connection
- 2 client that requests services from the cluster connection manager.
- 24. (Previously Presented) A system configured to open an initial peer-to-peer connec-
- tion over a cluster interconnect, the system comprising:
- a storage system;
- a cluster connection manager executing on the storage system, the cluster connec-
- tion manager configured to establish a peer connection on a predetermined port number
- and using a predetermined network address within the storage system; and
- a process executing on the storage system, the process configured to use the estab-
- 8 lished peer connection for communication.
- 1 25. (Previously Presented) The system of claim 24 wherein the peer-to-peer connec-
- tion is a virtual interface connection.
- 1 26. (Previously Presented) The system of claim 24 wherein the process executing on
- the storage system is a cluster connection client that requests services from the cluster
- 3 connection manager.
- 1 27. (Previously Presented) The system of claim 24 wherein the process executing on
- the storage system communicates with a cluster partner using the established peer con-
- 3 nection.

- 28. (Previously Presented) A system configured to accept the initiation of a peer-to-
- 2 peer connection over a cluster interconnect, the system comprising:
- a storage system;
- a cluster connection manager executing on the storage system, the cluster connec-
- tion manager configured to accept a peer connection on a predetermined port number and
- 6 using a predetermined network address within the storage system; and
- a process executing on the storage system, the process configured to read infor-
- 8 mation from the established peer connection.
- 29. (Previously Presented) The system of claim 28 wherein the peer-to-peer connec-
- tion is a virtual interface connection.
- 30. (Previously Presented) The system of claim 28 wherein the process executing on
- the storage system is a cluster connection client that requests services from the cluster
- 3 connection manager.
- 1 31. (Previously Presented) The system of claim 28 wherein the process executing on
- the storage system reads information from a cluster partner.
- 1 32. (Previously Presented) The system of claim 28 wherein the information comprises
- 2 heartbeat signals.

Please add the new claims 33 et seq:

- 1 33. (New) A method comprising:
- initializing a first remote direct memory access (RDMA) read operation directed
- to a specific cluster partner before a higher virtual interface layer has fully initialized, us-
- 4 ing a specific port number and a specific address that support a RDMA operations; and

- performing a second RDMA read operation directed to a specific cluster partner before a higher virtual interface layer has fully initialized, using a specific port number and a specific address that support a RDMA operations.
- 34. (New) A system configured to accept the initiation of a peer-to-peer connection over a cluster interconnect, the system comprising:
- a storage system;
- a cluster connection manager executing on the storage system, the cluster connec-
- tion manager configured to initialize a first remote direct memory access (RDMA) read
- 4 operation directed to a specific cluster partner before a higher virtual interface layer has
- fully initialized and use a specific port number and a specific address that support RDMA
- 6 operations; and
- a process executing on the storage system, the process configured to use the estab-
- lished peer-to-peer connection for communication.
- 35. (New) A computer readable medium for accepting the initiation of a peer-to-peer
- 2 connection over a cluster interconnect, the computer readable medium including program
- instructions when executed adapted to:
- attempting a first remote direct memory access (RDMA) read operation directed
- to a cluster partner;
- performing, in response to a successful first RDMA read operation, a first RDMA
 write operation to the cluster partner;
- performing, in response to a successful RDMA write operation, a second RDMA
- 9 read operation directed to the cluster partner; and
- performing, in response to a successful second RDMA read operation, a second
- 11 RDMA write operation to the cluster partner.